



See Learning in a Whole New Light

Dr. Clifford Houston

Deputy Associate Administrator for Education

March 21, 2003



Agency Mission



Inspire & Motivate
Engage the Public





Blueprint for Education

"In this great land called America, no child will be left behind."

- President George W. Bush



**National
Science
Foundation**



**United States
Department of
Education**

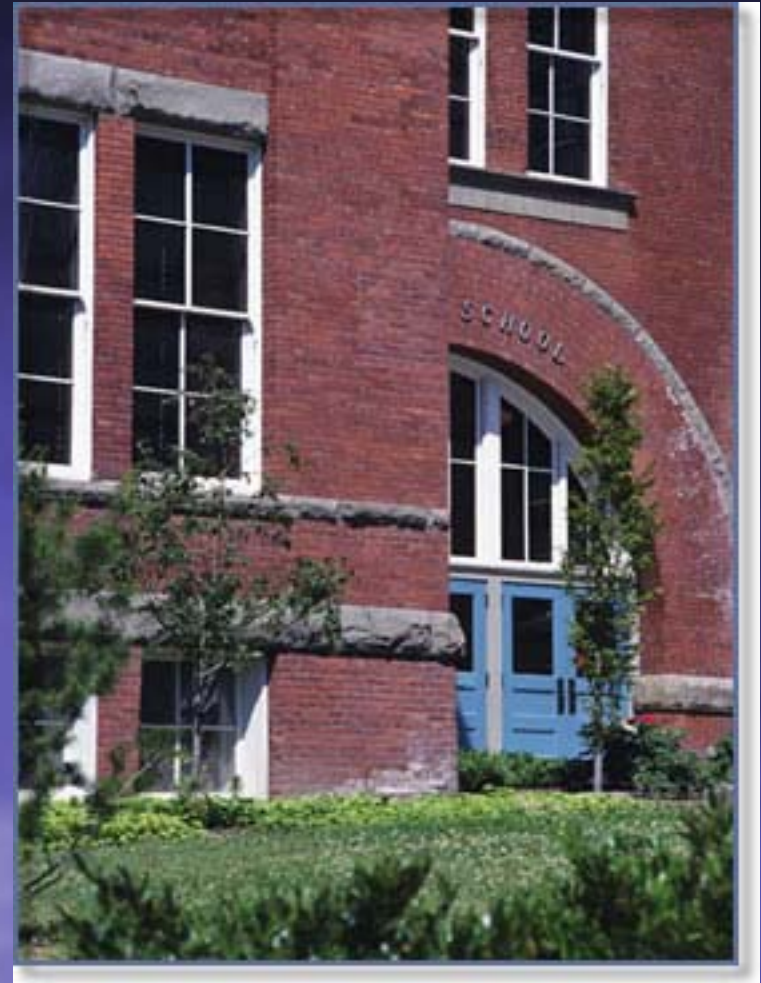


**National Aeronautics and
Space Administration**



Education as a Core Mission

Our Nation's
education system is
failing to equip our
children with
essential
mathematics and
science skills





Education as a Core Mission

Our Nation fails to produce enough Scientists, Mathematics, Engineers and Technologists needed to support National Economic and Security Needs





Education as a Core Mission

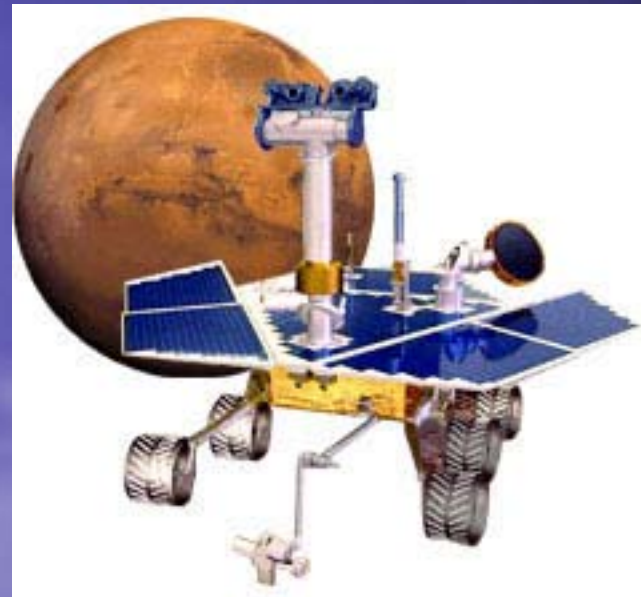
NASA is uniquely positioned to be able to positively effect an increase in the numbers of scientists, mathematicians, engineers and technologists





Education as a Core Mission

NASA can and must leverage its unique Enterprise activities to “Inspire the Next Generation of Explorers” like it has not done before.





NASA Education Priorities

Expand STEM **pipeline**
(Pre-college)



Increase STEM **workforce**
(Post-secondary)

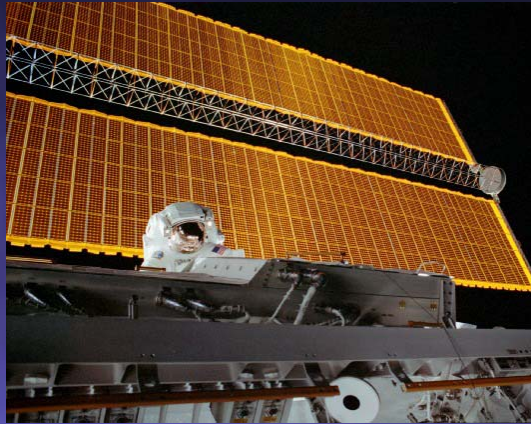


[illegible]



NASA Education Goals

1) MOTIVATE STUDENTS TO PURSUE CAREERS IN SCIENCE, MATHEMATICS, ENGINEERING, AND TECHNOLOGY



3) ENSURE THAT WE ARE INVESTING THE TAXPAYER'S RESOURCES WISELY

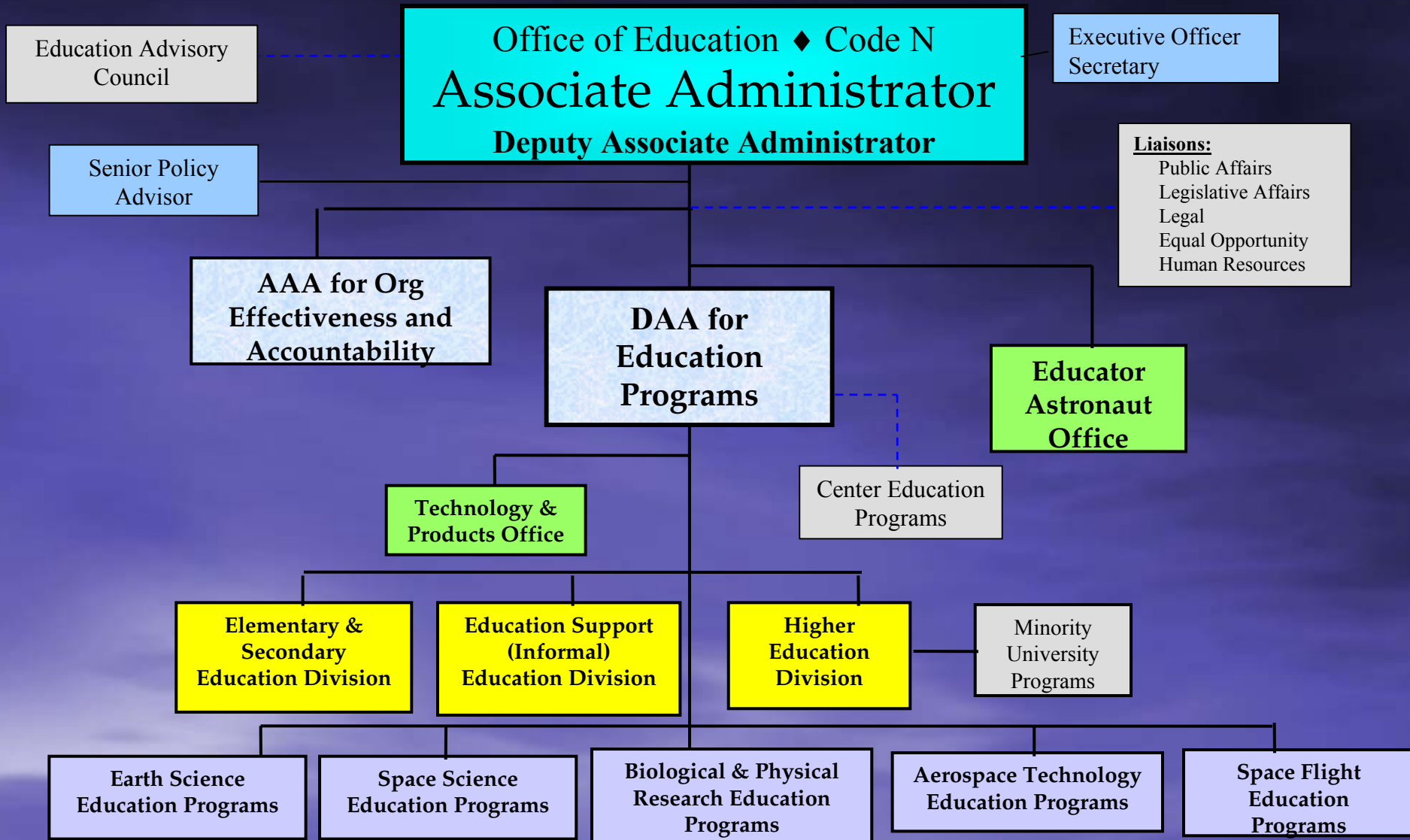
2) PROVIDE EDUCATORS WITH UNIQUE TEACHING TOOLS AND COMPELLING TEACHING EXPERIENCES



4) ENGAGE MINORITY & UNDERREPRESENTED STUDENTS, EDUCATORS, AND RESEARCHERS IN NASA'S EDUCATION PROGRAM



Enterprise Organization





New Initiatives for FY03

Four Educational Programs



Explorer Schools

Explorer Institutes

Science and Technology Scholarship Program

Educator Astronaut Program

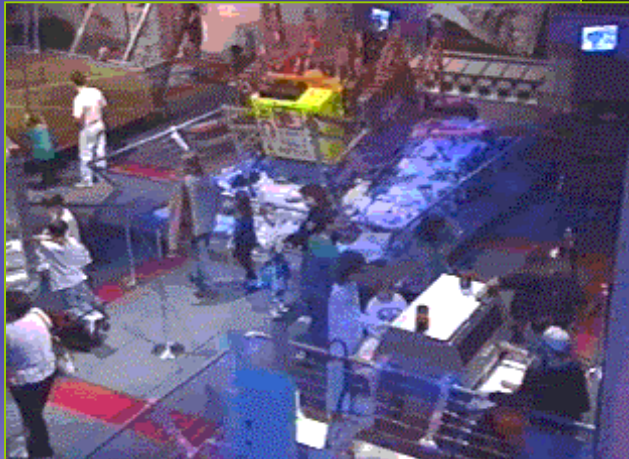


NASA Explorer Schools



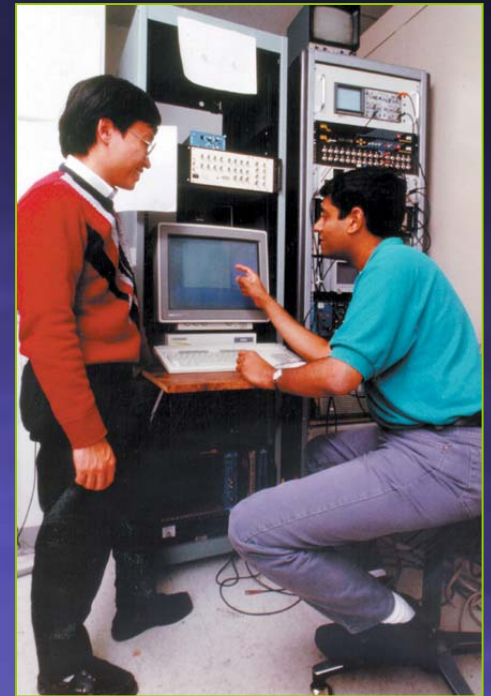
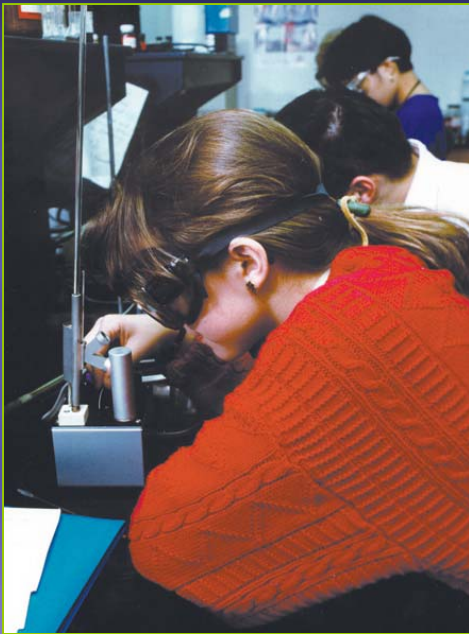


NASA Explorer Institutes





Science and Technology Scholarship Program





Educator Astronaut Program

Who?



**A fully qualified,
permanent
member of
NASA's Astronaut
Corps**



**A leader who
creates
revolutionary ways
to share the space
experience with
students**



**An astronaut
who inspires
the next
generation of
explorers**



Educator Astronaut Program

WHY?



Motivate students and educators to pursue science, technology, engineering, and mathematics

Enable educators to affect a larger, national audience





Educator Astronaut Program

Qualifications

- **U.S. citizen**
- **Certified K-12 educator**
- **Minimum three years classroom teaching within the past four years**
- **Bachelors degree from accredited college or university**
 - mathematics
 - physical science
 - biological science
 - engineering or technology-related field
 - education with a concentration in above fields
- **Ability to pass NASA space flight physical**





Educator Astronaut Program

Application

A complete application includes:

- **Resume and supplemental form**
- **Medical forms**
- **Three essays**
- **Four letters of recommendation**
- **Copy of academic transcripts**



edspace.nasa.gov

Applications due April 30, 2003



Educator Astronaut Program

Selection

**Final
selection
made by
Johnson
Space Center**



**Educator
Astronaut
Candidates
announced
Early 2004**

**Join the NASA Team at
Johnson Space Center
in Houston, Texas**



**Become part of the
U.S. Civil Service
Undergo intensive training**



Educator Astronaut Program

Assignments





Educator Astronaut Program

Join the Earth Crew!

Join Earth Crew

- Motivate students to learn about space, aeronautics and science
- Follow the astronauts' training and exercise
- Design Earth Crew mission patches
- Recruit, engage and inspire!
- Learn about NASA careers



edspace.nasa.gov



Educator Astronaut Program

Who can nominate at teacher?

Students, educators, friends, and the general public can nominate educators.



Nominee chooses whether to apply.



Educator Astronaut Program

Other NASA Careers

Aerospace, Mechanical, Electrical, and Computer Engineering

Astronomy

Physical Science

Geology

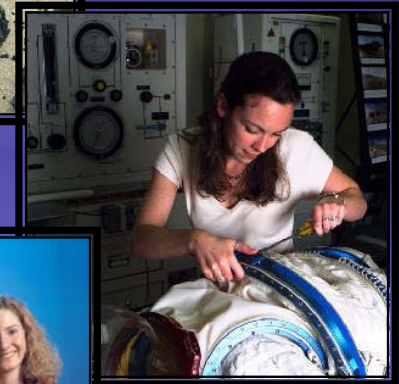
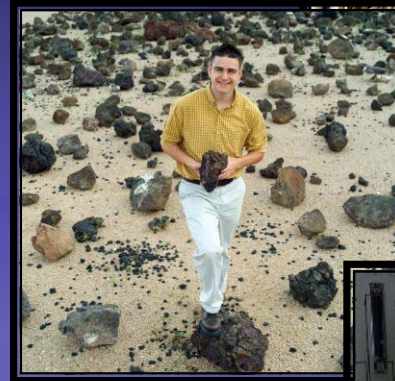
Physics

Spaceflight Hardware Design

Biological Science

Computer Science



Financial Management






Educator Astronaut Program

edspace.nasa.gov



SEE LEARNING IN A WHOLE NEW LIGHT



[What Is an Educator Astronaut?](#)

[Nominate a Teacher!](#)

[How Do I Apply?](#)

[What Are the Qualifications?](#)

[Home](#)

[Earth Crew](#)

[Astronaut School](#)


[Meet the Astronauts](#)


[Living in Space](#)


[Bringing Space Home](#)

[Explorer's Galaxy](#)


[EA Vidclips](#)

 See the latest video clips about EA







Living In Space




Bringing Space Home




Explorer's Galaxy



Astronaut School



Join the Earth Crew



Meet the Astronauts

[News Updates](#)

[Frequently Asked Questions](#)

[Send to a Friend](#)

[Comments](#)



Education as a Core Mission

Criteria for Educational Programs

1) Customer Focused

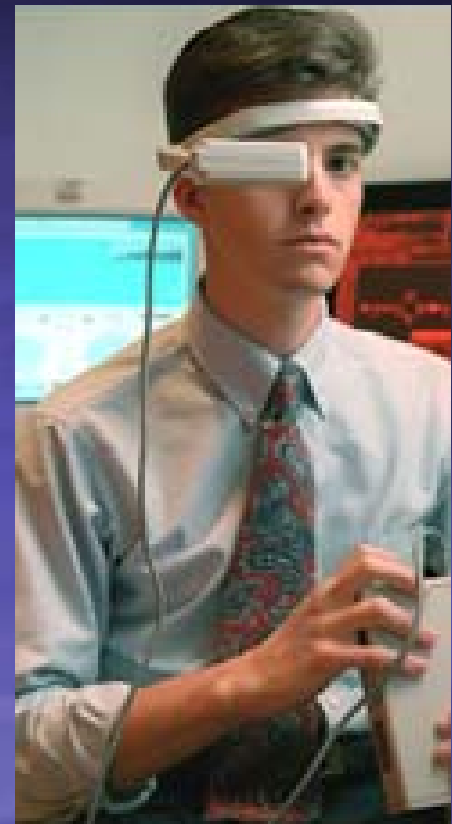
2) NASA Content

3) NASA pipeline

4) Diversity

5) Evaluation

6) Partnerships/sustainability





Space Grant Assistance

How can you help Code N?

- Distribute information concerning NASA programs
- Establish local efforts for National campaigns
- Collaborate with local Informal Education communities
- Continue programs that address the STEM pipeline shortage



The background of the slide is a full-page image of Earth from space. A bright sun is positioned in the upper center, creating a large, multi-pointed starburst effect with rays of light extending across the dark sky. Below the sun, the horizon of the Earth is visible, showing a thin blue line of the atmosphere. The surface of the Earth is covered in a dense pattern of clouds, with some areas appearing more illuminated than others, suggesting a low sun position like during a sunrise or sunset.

See Learning in a Whole New Light